K David Whittington Director

Kathie W Little Secretary/Treasurer

Russell O Slayton, Jr Authority Attorney



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Vice Chairman

Lames C Vaughan

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Michael W Ferguson

THE GREENSVILLE COUNTY WATER AND SEWER AUTHORITY

April 15, 2013

Ms Tamira Cohen, Ph D Environmental Specialist, Sr VDEQ Piedmont Regional Office 4949A Cox Road Glen Allen, Virginia 23060

Re VPDES Permit No VA0028916, Greensville County-Skippers WWTF Revised Permit Renewal application

Dear Ms Cohen

Please find included one original and one copy of revised pages of EPA Forms 2A, the VPDES Permit Application Addendum, and Attachment A-Water Quality Criteria Monitoring form as noted in your e-mail dated Monday April 8, 2013

The VPDES Permit Application Addendum Item 9 request the approval dates of the O&M Manual and Solids Management Plan I have not been able to locate the approval date for the O&M Manual, the date on our copy states that it was revised February 2008 which would have been after the last permit renewal I have also not been able to locate a copy of the Sludge Management Plan for this plant It should have been done shortly after we accepted the ownership of the facility in December 1999 Please find attached to the VPDES Permit Application Addendum a plan for the solids and sludge that are removed from the Skippers facility and transported to the Three Creek WWTF for further treatment and disposal

If additional information is needed please contact me at 434-348-4245

Thank You

James Warf, Supt of Public Utilities

GCWSA

019.	Revised
VPDES Permit Application Addendum	4/12/13 91 W
_	ssued Greensville County Water and Sewer Authority water treatment facilities and compliance with the permit? This may or may
2 Is this facility located within city or	town boundaries? Yes 🗌 No 🗵
3 Provide the tax map parcel number	for the land where the discharge is located. 44-62B
4 For the facility to be covered by this	s permit, how many acres will be disturbed during the next
five years due to new construction activ	
5 What is the design average effluent	flow of this facility? 036 MGD
	max. 30-day average production level, include units:
NA	
In addition to the design flow or pro other discharge flow tiers or produc	oduction level, should the permit be written with limits for any
If "Yes", please identify the other flow	
100 % of flow from domestic	
Number of private residences to be set	rved by the treatment works 0
0 % of flow from non-domestic con	nnections/sources
7 Mode of discharge 🛛 Continuou	as Intermittent Seasonal
Describe frequency and duration of	f intermittent or seasonal discharges
8 Identify the characteristics of the redischarge point: X Permanent stream, never dry	ceiving stream at the point just above the facility's
7 I cilitation stream, never dry	
Intermittent stream usually flow	zing sometimes dry
Intermuttent stream, usually flow	•
Ephemeral stream, wet-weather	flow, often dry
Effluent-dependent stream, usua	flow, often dry ally or always dry without effluent flow
Ephemeral stream, wet-weather	flow, often dry ally or always dry without effluent flow
Ephemeral stream, wet-weather Effluent-dependent stream, usua Lake or pond at or below the dis	flow, often dry ally or always dry without effluent flow

Have there been any changes in your operations or procedures since the above approval dates? Yes ☐ No ☒

GREENSVILLE COUNTY- SKIPPERS WWTF Permit # VA0028916

Sludge/Solids Management Plan April 15, 2013

Sludge is collected from the clarifiers and stored in the plant digester. The sludge is removed from the digester and periodically loaded in an approved hauling truck and delivered to the Three Creek WWTF located at 428 Moonlight Road where it is offloaded into a manhole just upstream of the pretreatment bar screen and grit chamber. The sludge is mixed with the influent of the plant and processed with the plant waste.

It is then digested along with the sludge from the process, dried and delivered to the County landfill

FÁCILITY NAME AND PERMIT NUMBER

Greensville County - Skippers WWTF VA0028916

Rovisod 4/12/13 812

Form Approved 1/14/99 OMB Number 2040-0086

A 5	In	dian Country	
	а	Is the treatment works located in Indian Country?	
		Yes	
	b	Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?	
		Yes	
A 6	av	ow Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the reage daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time enough the 12th month of "this year" occurring no more than three months prior to this application submittal	
	а	Design flow rate 0 36 mgd Lyw Two Years Ago Last Year This Year	
	b	Annual average daily flow rate 0 01 0 01 mgd	
	C	Maximum daily flow rate 0.03 0.03 6 mgd	
A 7		ollectron System Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent ontribution (by miles) of each	
		✓ Separate sanitary sewer 100 00 %	
		Combined storm and sanitary sewer %	
	_		
8 A	Dı	scharges and Other Disposal Methods	
	а	Does the treatment works discharge effluent to waters of the U.S.?	
		If yes, list how many of each of the following types of discharge points the treatment works uses	
		ı Discharges of treated effluent1	
		Discharges of untreated or partially treated effluent	
		III Combined sewer overflow points	
		N Constructed emergency overflows (рпот to the headworks)	
		v OtherNA	
	b	Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes Yes	
		If yes, provide the following for each surface impoundment	
		Location	
		Annual average daily volume discharged to surface impoundment(s) mgd	
		Is discharge continuous or intermittent?	
	С	Does the treatment works land-apply treated wastewater? Yes No	
		If yes, provide the following <u>for each land application site</u>	
		Location	
		Number of acres	
		Annual average daily volume applied to site Mgd	
		Is land application continuous or intermittent?	
	d	Does the treatment works discharge or transport treated or untreated wastewater to another treatment works? Yes No	

Revised 14/12/13 21 W

FACILITY NAME AND PERMIT NUMBER

Greensville County - Skippers WWTF VA0028916

Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES

If you answered "yes" to question A 8 a, complete questions A 9 through A 12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A 8 a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	De	scription of Outfall									
	а	Outfall number	001								
	ь	Location									
	_		(City or town, if applicable) Greensville	(Zip Code) Virginia							
			(County)	(State)							
			36-35'-40 88N (Latitude)	77-34'-18 78W (Longitude)							
			, ,								
	С	Distance from shore ((if applicable)	N/A n dow							
	d	Depth below surface	(if applicable)	N/A # Q1W							
	e	Average daily flow rat	te	N/A mgd Q & W							
	f	Does this outfall have periodic discharge?	either an intermittent or a	Yes ✓ No (go to A 9 g.)							
		If yes, provide the follo	owing information	YesNo (go to A 9 g)							
		Number of times per y	year discharge occurs								
		Average duration of e	ach discharge								
		_	ū								
		Average flow per disc	_	mgd							
		Months in which disch	narge occurs								
	g	Is outfall equipped wit	th a diffuser?	Yes No							
10	De	scription of Receiving	g Waters								
	а	Name of receiving wa	ter Fountain Creel	K							
	ь	Name of watershed (r	f known)	Chowan							
		United States Soil Co	nservation Service 14-digit wa	etershed code (if known)							
	c Name of State Management/River Basin (if known)										
		United States Geological Survey 8-digit hydrologic cataloging unit code (if known)									
	d	Critical low flow of receiving stream (if applicable) acute $\frac{NA}{A}$ cfs $\int \mathcal{J} \mathcal{W}$ chronic $\frac{NA}{A}$ cfs $\int \mathcal{J} \mathcal{W}$									
	e	Total hardness of reco	erving stream at critical low flo	w (if applicable) N/A mod/ of CaCO							
	•	Total hardness of feet	eranig sucam at chilical low no	chronic $\frac{N/A}{M}$ cfs $\int \int \int$							
				Ø ¼ ≈ -							

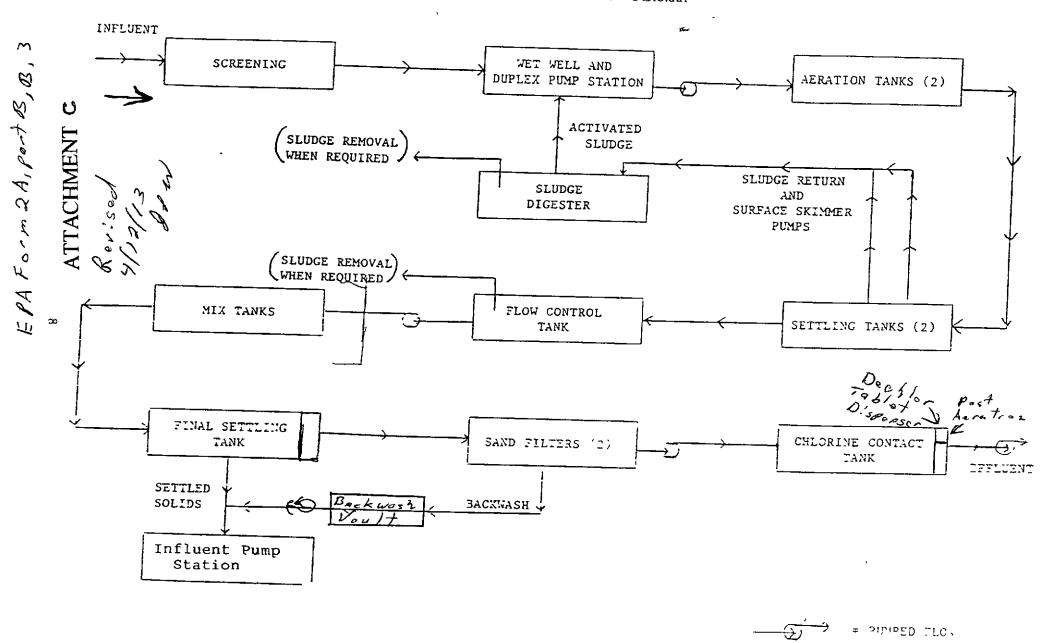
80013ed 74/12/13 22W

FACILITY NAME AND PERMIT NUMBER

Greensville County - Skippers WWTF VA0028916

Form Approved 1/14/99 OMB Number 2040-0086

Cree	ISVII	ile County - Si	rippers w	WIF V	AUUZO	910			•					
A 11	Des	scription of Tre	eatment											
	а	What levels of	treatment a	ite btovi	ded? C	heck all th	at ap	ply					No No No No No No No No No No	
		Pri	imary			<u>√</u> s	econ	dary			% % % % season, please describe / Yes			
		Ad	tvanced		_	0	ther	Describe		·				
	þ	Indicate the fol	lowing rem	oval rate	s (as a	pplicable)								
		Design BOD ₅ r	emoval <u>or</u> l	Design C	BOD _s	removal			<u>85</u>	00		%		
		Design SS rem	noval						80	00		%		
		Design P remo	val						<u>0 0</u>	0				
		Design N remo	val						<u>o o</u>	0 00				
		Other			_				00	0		%		
	c What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please desc											lease describ	8	
		Sodium Hyp	rochlonte											
		If disinfection is	s by ch l orin	ation, is	dechlo	nnation us	ed fo	or this outfalt?			_ Ye	əs		No
	d	Does the treatr	ment plant l	have pos	st aerat	ion?				<u> </u>	Ye	es	···	No
		tfall number	001	ly date				-	Illpres arr.					
	-	PARAMET	ER		N	MUMIXAL	DAII	LY VALUE			AVE	RAGE DAILY	VAL	UE
					V	/alue		Units	Val	ue		Units		Number of Samples
pH (l	Minin	пит)			6 90			su	, - , , , , , , , , , , , , , , , , , ,		45 47 17 1	Farme Service	Ti 1	क्षेत्रका स्थापन स्थाप स्थापन स्थापन स्थापन स्थापन स्थापन स्थापन स्थापन
рН (7	Maxii	тит)			7 90			s u	- 4 + [nr	. F			āny L	
Flow	Rate	ð			0 02	40.4	mg		0 01		mga	<u> </u>	30	0
Tem	perat	ture (Winter)			67 00		4	renheit	36 00				—	
Tem		ture (Summer) or pH please rec	port a minir	num and		o Ud 4			86 00		Fere	enheit	30	90
* For pH please report a minimum ai		M.	AXIMUM DAILY DISCHARGE				DAILY DISCHARGE					ML/MDL		
				Co	nc	Units	ŀ	Conc	Units					
CON	ÆN1	TIONAL AND N	ONCONVE	NTION	AL COM	*POUNDS	3					1		
BIOCH	1EMI	ICAL OXYGEN	BOD-5	7 00		mg/l		6 60	mg/l	3 00		5210 B		2
DEMA	ND ((Report one)	CBOD-5	ļ				· · · · · · · · · · · · · · · · · · ·						
FECA	L CO	LIFORM	_ 	0 00		mg/l	─	0 00	mg/l	3 00		}		
TOTA	L SU	SPENDED SOL	DS (TSS)	7 00		mg/l		4 00	mg/l	3 00		2540D		10
RE	FE	R TO THE	APPLI	CATI	ON (OVERV	/IE\	D OF PAR W TO DET MUST CO	ERMINE		CH (OTHER F	PAF	RTS OF FORM



- CRAVETY TECH

ATTACHMENT D

Form 2A Part B Item B 5 a Scheduled Improvements and Schedules of Implementation

We are in the process of replacing the original duplex influent pump station with a new station. Are also adding telescopic valves to the settling tanks to allow us to return the sludge from these tanks thru the pump station and send it back to the aeration tanks. The intention of this upgrade is to assist in better treatment of the wastewater and provide a better quality discharge.

With the addition of a second travel plaza discharging to this plant we wanted to be pro active in our treatment of the wastewater. The changes do not increase the capacity of the plant. Please refer to CTC PTLog No. 25107 (DEQ approved 12/10/2010).

Revisor 4/12/13 21 W. VA0028916

Attachment A – DEQ Water Quality Criteria Monitoring (continued)

CASRN#	CHEMICAL	EPA ANALYSIS NO	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY	
	ACI	D EXTRAC	CTABLES (6	5)			
95-57-8	2-Chlorophenol	625	5ug/l	<5ug/l	G or C	1/5 YR	
120-83-2	2,4 Dichlorophenol	625	5ug/i	<5ug/l	G or C	1/5 YR	
105-67-9	2,4 Dimethylphenol	625	5ug/l	<5ug/l	G or C	1/5 YR	
51-28-5	2,4-Dinitrophenol	625	20ug/l	<20ug/l	G or C	1/5 YR	
534-52-1	2-Methyl-4,6-Dinitrophenol 4,6 Dinitro-o-cresol	625	5ug/l	<5ug/l	G or C	1/5 YR	
25154-52-3	Nonylphenol	D7065-06	5ug/l	<5ug/l	G or C	1/5 YR	
87-86-5	Pentachlorophenol	625	10ug/l	<10ug/l	G or C	1/5 YR	
108-95-2	Phenoi	625	5ug/i	<5ug/l	G or C	1/5 YR	
88-06-2	2,4,6-Trichlorophenol	625	5ug/l	<5ug/l	G or C	1/5 YR	
	· · · · · · · · · · · · · · · · · · ·	MISCELLA	NEOUS	<u> </u>		<u> </u>	
776-41-7	Ammonia as NH3-N	4500NH3D	0 10MG/L	42 9MG/L	С	1/5 YR	
16887-00-6	Chlorides	4500CI C	1MG/L	145MG/L	С	1/5 YR (FW and PWS)	
7782-50-5	Chlorine, Total Residual	4500CI C	1 MG/L	<0 10 Mg/l	G	1/5 YR	
57-12-5	Cyanide, Free	ASTM D 4282	10 0	رير مد الا <10 ug/L	G	1/5 YR	
94-75-7	2,4 Dichlorophenoxy acetic acid (synonym = 2,4-D)	(4)	(5)	Not Required	G or C	1/5 YR (PWS)	
1746-01-6	Dioxin (2,3,7,8-tetrachlorodibenzo- p-dioxin) (ppq)	1613	0 00001	Not Required	G or C	1/5 YR [Paper Mills & Oil Refineries]	
N/A	E coli / Enterococcus (N/CML)	Colilert	1 mpn/100ml	0 mpn/100mt	G	1/5 YR	
N/A	Foaming Agents (as MBAS)	(4)	(5)	Not Required	G	1/5 YR (PWS)	
18496-25-8	Dissolved Sulfide	4500-S2 F	0 2MG/L	<0 2MG/L	G	1/5 YR	
14797-55-8	Nitrate as N (mg/L)	(4)	(5)	Not Required	С	1/5 YR (PWS)	
N/A	Sulfate (mg/L)	(4)	(5)	Not Required	С	1/5 YR (PWS)	
N/A	Total Dissolved Solids (mg/L)	(4)	(5)	Not Required	С	1/5 YR (PWS)	
60-10-5	Tributyltin (7)	NBSIR 85-329	0 03ug/i	<0 03ug/l	G or C	1/5 YR	
93-72-1	2-(2,4,5-Trichlorophenoxy) propionic acid (synonym = Silvex)	(4)	(5)	Not Required	GorC	1/5 YR (PWS)	
471-34-1	Hardness (mg/L as CaCO₃)	2340B	0 331 mg/l	149mg/l	G or C (10)	1/5 YR	